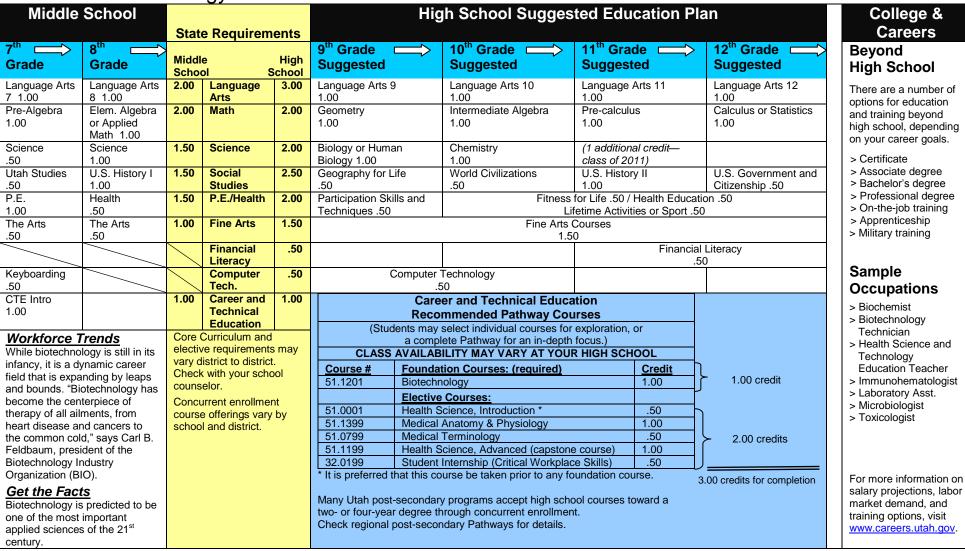
Area of Study: Health Science & Technology Education

Pathway: Biotech Research & Development

Biotechnology



005102

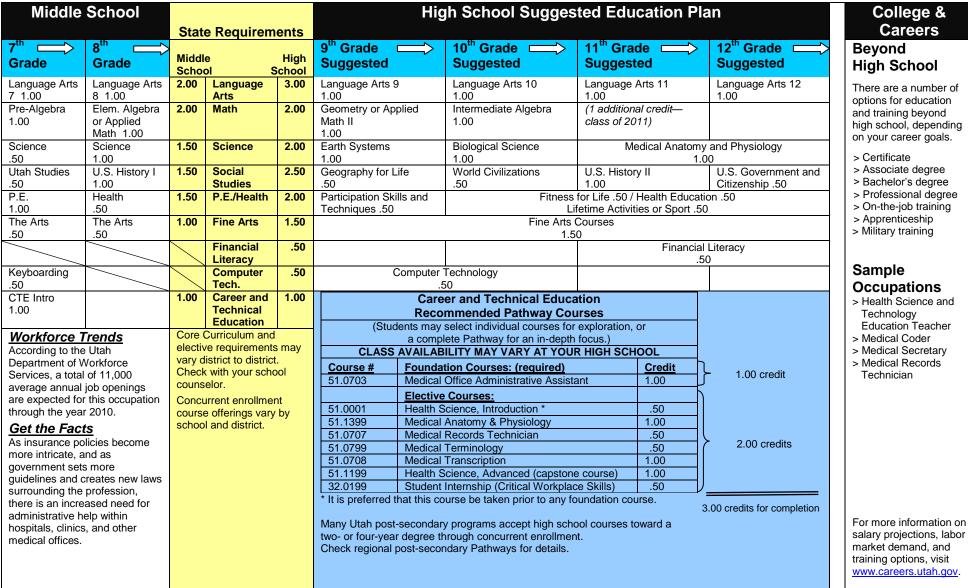
Revised Jan 09

Note: For more information, talk to your school counselor.

Area of Study: Health Science & Technology Education

### Pathway: Health Informatics

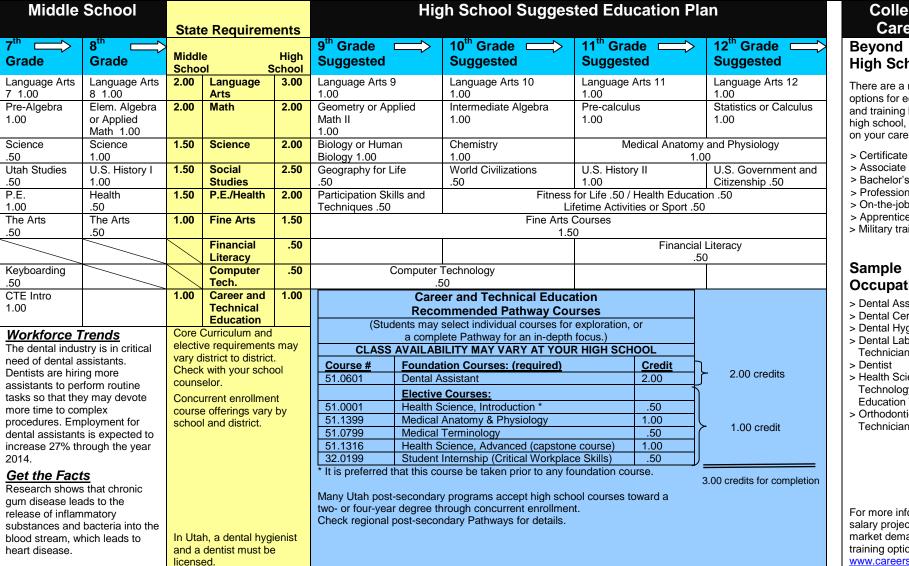
Medical Office Administrative Assistant



005107

Area of Study: Health Science & Technology Education

### Pathway: Therapeutic Services Dental



#### College & **Careers**

## **High School**

There are a number of options for education and training beyond high school, depending on your career goals.

- > Associate degree
- > Bachelor's degree
- > Professional degree
- > On-the-job training
- > Apprenticeship
- > Military training

#### Sample **Occupations**

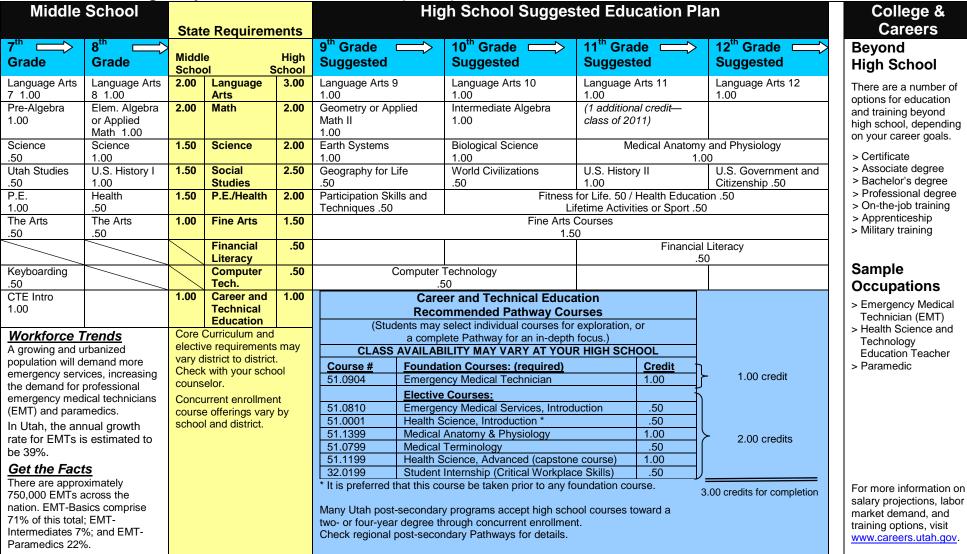
- > Dental Assistant
- > Dental Ceramist
- > Dental Hygienist
- > Dental Laboratory Technician
- > Health Science and Technology **Education Teacher**
- > Orthodontic Technician

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Area of Study: Health Science & Technology Education

## Pathway: Therapeutic Services

**Emergency Medical Technician (EMT)** 





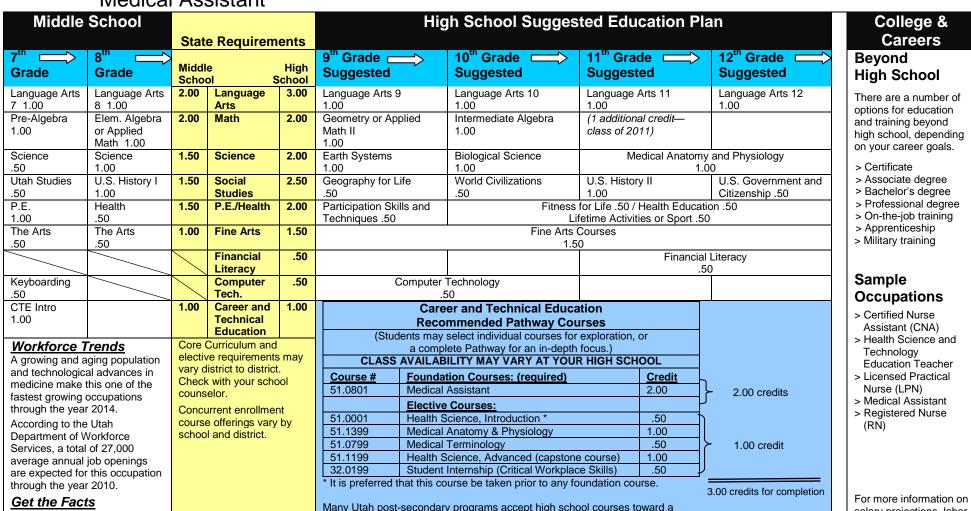
005104 Revised Jan 09

Note: For more information, talk to your school counselor.



Area of Study: Health Science & Technology Education

### Pathway: Therapeutic Services **Medical Assistant**



two- or four-year degree through concurrent enrollment.

Check regional post-secondary Pathways for details.

high school, depending

salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Medical assistants held about

387,000 jobs in 2004.

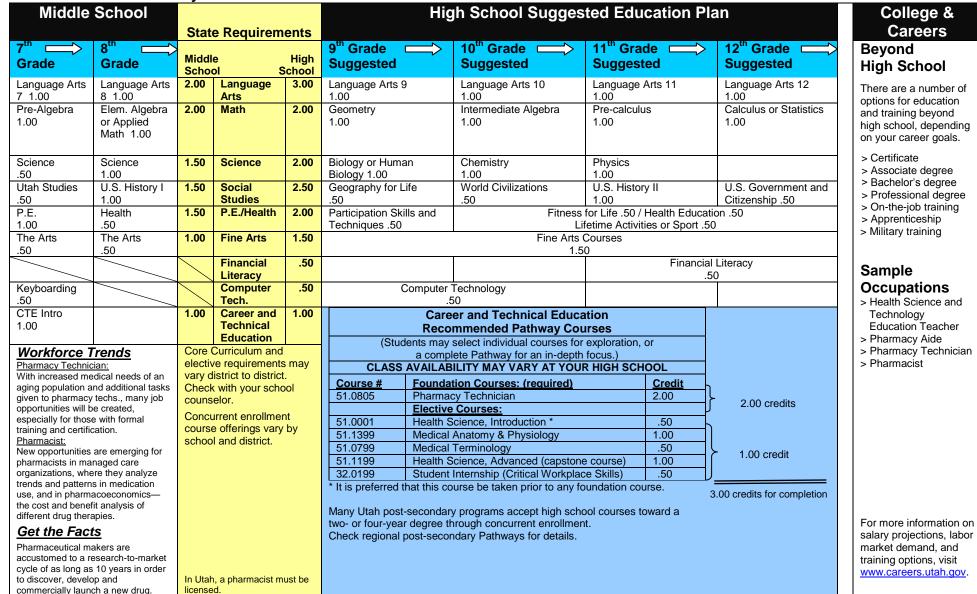
### Pathway: Therapeutic Services Nursing



Middle	State Requirements			Hig	College & Careers				
7 <sup>th</sup> Crade	8 <sup>th</sup> —> Grade	Middle High School School		9 <sup>th</sup> Grade	10 <sup>th</sup> Grade $\Longrightarrow$ Suggested	11 <sup>th</sup> Grade ——> Suggested	Suggested	Beyond High School	
Language Arts 7 1.0	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Language Arts 12 1.00	There are a number of options for education
Pre-Algebra 1.0	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	Pre-calculus or Statistic 1.00		and training beyond high school, depending on your career goals.
Science .50	Science 1.00	1.50	Science	2.00	Earth Sys. 1.00	Biology or Human Biology 1.00	Ch	> Certificate	
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life	World Civilizations	U.S. History II 1.00	U.S. Government and Citizenship .50	<ul><li>Associate degree</li><li>Bachelor's degree</li></ul>
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	> Professional degree > On-the-job training			
The Arts	The Arts .50	1.00	Fine Arts	1.50	·	<ul><li>&gt; Apprenticeship</li><li>&gt; Military training</li></ul>			
			Financial Literacy	.50			Financ	ial Literacy .50	
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				Sample Occupations
CTE Intro 1.00		1.00	Career and Technical Education	1.00	Care Reco	> Certified Nurse Assistant (CNA)			
Workforce Trends Health care is the largest and		Core Curriculum and elective requirements may			(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)  CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				> Health Science and Technology Education Teacher
fastest-growing United States, e 10 million worke 200 careers.	mploying over	vary district to district. Check with your school counselor.				tion Courses: (required) Terminology ssistant	<u>Credit</u> .50 .50	1.00 credit	<ul><li>Licensed Practical Nurse (LPN)</li><li>Medical Assistant</li></ul>
Get the Facts In the U.S., registered nurses		Concurrent enrollment course offerings vary by school and district.			Elective Courses: 51.0001 Health Science, Introduction * .50				> Registered Nurse (RN)
held approximat jobs in 2004, ma	ely 2.4 million				20.0118 Food & I	Nutrition I Nutrition II	.50 .50		
nursing the large					51.1199 Health S	ions of Nutrition Science, Advanced (capstone		2.00 credits	
jobs are in hospitals, in inpatient and outpatient departments.					51.1399 Medical	Development Anatomy & Physiology Internship (Critical Workplac	1.00 1.00 ce Skills) .50		For more information on salary projections, labor market demand, and
					* It is preferred that this co	training options, visit www.careers.utah.gov.			
					Many Utah post-secondar two- or four-year degree the				
					Check regional post-secor	ndary Pathways for details.			005109

Area of Study: Health Science & Technology Education

# Pathway: Therapeutic Services Pharmacy



005110

Area of Study: Health Science & Technology Education

### Pathway: Therapeutic Services Surgical Technician

Middle

**School** 

Arts

Math

Science

Social

**Studies** 

Literacy

Tech.

2.00

2.00

1.50

1.50

1.50

1.00

Middle School

Grade

8 1.00

or Applied

Math 1.00

U.S. History I

Science

1.00

1.00

.50

.50

Health

The Arts

Language Arts

Elem. Algebra

Grade

7 1.00

Science

1.00

.50

P.E.

1.00

.5

The Arts

Keyboarding

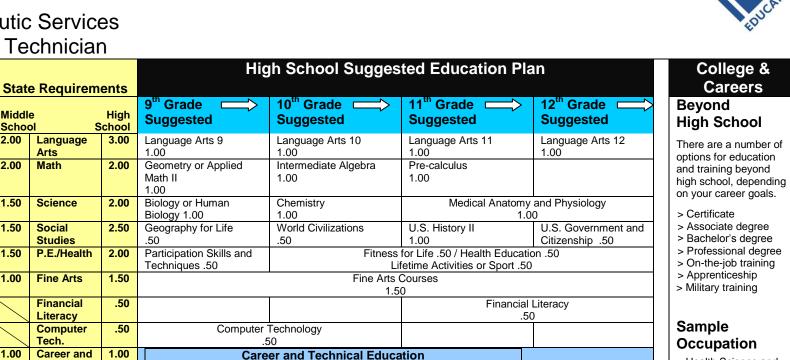
CTE Intro

1.00

Language Arts

Pre-Algebra

**Utah Studies** 



Credit

2.00 credits

1.00 credit

3.00 credits for completion

2.00

.50

1.00

.50

1.00

.50

#### Workforce Trends

Demand for surgical technicians will rise as the population ages and as new technologies allow for more and varied surgeries. Hospitals will remain the primary employer, but physician offices and clinics, including ambulatory surgical centers, will provide most new jobs.

#### Get the Facts

Surgical technicians are commonly refered to as "scrubs." More than threefourths of scrubs work in a hospital setting, with the exception of private scrubs who are employed directly by surgeons for special teams like transplant work.

Education Core Curriculum and elective requirements may vary district to district. Check with your school counselor.

Course #

51.0909

51.0001

51.1399

51.0799

51.1199

32.0199

Technical

Concurrent enrollment course offerings vary by school and district.

\* It is preferred that this course be taken prior to any foundation course.

**Recommended Pathway Courses** 

(Students may select individual courses for exploration, or

a complete Pathway for an in-depth focus.)

**CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL** 

Health Science, Advanced (capstone course)

Student Internship (Critical Workplace Skills)

Foundation Courses: (required)

Health Science, Introduction \*

Medical Anatomy & Physiology

Surgical Technician

**Elective Courses:** 

Medical Terminology

Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.

- > Health Science and Technology **Education Teacher**
- > Surgical Technician

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Area of Study: Health Science & Technology Education

### Pathway: Therapeutic Services

Therapeutic Rehabilitation/Exercise (Formerly Exercise Science/Sports Medicine)

Middle School		State Demoirements			Hiç	College & Careers			
7 <sup>tn</sup> Crade	8 <sup>tn</sup>	State Requirements  Middle High School School		9 <sup>th</sup> Grade	10 <sup>th</sup> Grade  Suggested	11 <sup>th</sup> Grade Suggested	> 12 <sup>th</sup> Grade	Beyond High School	
Language Arts 7 1.00 Pre-Algebra 1.00 Science .50 Utah Studies 1.00 P.E. 1.00 P.E. 1.00 The Arts .50  CTE Intro 1.00  Workforce Trends Job growth will be concentrated in health care industry settings, such as ambulatory health care		2.00 2.00 1.50 1.50 1.00 Core electivyary of	Language Arts Math  Science  Social Studies P.E./Health  Fine Arts  Financial Literacy Computer Tech. Career and Technical Education Curriculum and we requirements district to district with your school	2.00 2.00 2.50 2.00 1.50 3.00 2.00 2.50 2.00 2.00 2.00	Suggested  Language Arts 9 1.00  Geometry or Applied Math II 1.00  Biology or Human Biology 1.00  Geography for Life .50  Participation Skills and Techniques .50  Computer  Care Reco (Students may a comp CLASS AVAILAB Course # Founda 51.0913  Exercise	Suggested  Language Arts 10 1.00  Intermediate Algebra 1.00  Chemistry 1.00  World Civilizations .50  Fitness	Language Arts 11 1.00 Pre-calculus or Statistic 1.00 Medical Anato  U.S. History II 1.00 for Life .50 / Health Educ fetime Activities or Sport  Courses 0 Finance  ation urses exploration, or focus.)	Suggested  Language Arts 12 1.00  Es  my and Physiology 1.00  U.S. Government and Citizenship .50 eation .50	
Get the Facts Physical Therapy is ranked among the top 10 fields, and is expected to remain a top field well into the 21 <sup>st</sup> century.  In Utah, an athletic trainer, physical therapist, physician, and physician assistant must be licensed.		Concurrent enrollment course offerings vary by school and district.			Elective Courses:  51.0001 Health Science, Introduction *  51.0799 Medical Terminology  51.1199 Health Science, Advanced (capstone course)  32.0199 Student Internship (Critical Workplace Skills)  * It is preferred that this course be taken prior to any foundation  Many Utah post-secondary programs accept high school course two- or four-year degree through concurrent enrollment.  Check regional post-secondary Pathways for details.		.50 .50 e course) 1.00 ce Skills) .50 bundation course. cool courses toward a	1.00 credit  3.00 credits for completion	> Physical Therapist     Aide > Massage Therapist > Physician > Physician Assistant  For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Note: For more information, talk to your school counselor.